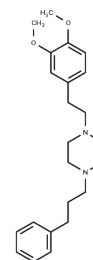


## Cutamesine

## Chemical Properties

CAS No. :	165377-43-5
Formula:	C <sub>23</sub> H <sub>32</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	368.51
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cutamesine (SA4503; AGY-94806), a selective sigma 1 receptor ( $\sigma$ 1R) agonist, exhibits high affinity for the $\sigma$ 1R subtype as indicated by (+)-[ <sup>3</sup> H]pentazocine labeling, with an IC <sub>50</sub> value of 17.4±1.9 nM. It demonstrates 100-fold lower affinity for the sigma 2 receptor.
Targets(IC <sub>50</sub> )	Sigma receptor

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7136 mL	13.5682 mL	27.1363 mL
5 mM	0.5427 mL	2.7136 mL	5.4273 mL
10 mM	0.2714 mL	1.3568 mL	2.7136 mL
50 mM	0.0543 mL	0.2714 mL	0.5427 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Matsuno K, et al. Binding properties of SA4503, a novel and selective sigma 1 receptor agonist. *Eur J Pharmacol.* 1996 Jun 13;306(1-3):271-9.

Minabe Y, et al. Acute and chronic administration of the selective sigma1 receptor agonist SA4503 significantly alters the activity of midbrain dopamine neurons in rats: An in vivo electrophysiological study. *Synapse.* 1999 Aug; 33(2):129-40.

Ono Y, et al. SA4503, a sigma-1 receptor agonist, suppresses motor neuron damage in in vitro and in vivo amyotrophic lateral sclerosis models. *Neurosci Lett.* 2014 Jan 24;559:174-8.

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